

ABSTRACT OF THE DISCLOSURE

A wireless communication apparatus, a wireless communication system adopting the same and a communication method thereof are provided. In the wireless communication system, a slave device transmits a predetermined priority to the master device, and a master device receives the predetermined priority from the slave device, and determines and assigns the slave device with a priority considering the predetermined priority. According to the wireless communication apparatus, the wireless communication system adopting the same and the communication method thereof, a suitable transmission rate is assigned to the slave device, not uniformly, but according to the need of the slave device, so that assigning of an excessive or insufficient transmission rate can be prevented.